

## **PROTOCOL FOR STRIPPING AND REUSE OF FILTERS**

**Purpose:** to strip filters of radioactive probe for reuse.

**Materials Needed:**

- ☐ Water baths at 65C and room temperature
- ☐ 10N NaOH
- ☐ 1M Tris
- ☐ 20X SSC
- ☐ 20% SDS
- ☐ Survey meter
- ☐ Phosphor screen

**Procedure:**

1. Prepare one liter of NaOH solution (40 ml 10N NaOH and 5ml 20% SDS for final concentration of 0.4 M NaOH, 0.1% SDS)
2. Prepare one liter of Tris solution (200ml 1M Tris, pH 8.0, 50ml 20X SSC, 5 ml 20% SDS for final concentration of 0.2M Tris, 1X SSC, 0.1% SDS)
3. Place filters in a bath of NaOH solution at 65C for 30 minutes with vigorous shaking. Repeat.
4. Place filters in a second bath of Tris solution at room temperature for 10 minutes. Repeat.
5. Monitor filters with Survey meter.
6. If the filters have no apparent counts detected with hand held counter, air dry and expose overnight in phosphor screen.
7. If the filters still have some counts detected by hand, repeat the above procedure, or place in plastic bags and let decay away (8 half-lives for  $^{33}\text{P}$  = ~ 8 months)

Comments:

We have had difficulty stripping our latest version of membrane arrays. Possibly using Ambion strip ease, more uses (10?) per array could be achieved.

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For frequently asked questions go to the following address:

<http://www.grc.nia.nih.gov/branches/rrb/dna/protocolFAQs.htm>

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